



Core Maths intent statement

Year 12:

Half term 1	Half term 2	Half term 3	Half term 4	Half term 5
<ul style="list-style-type: none">• Percentages• Interest rates• Repayments and the cost of credit• Taxation• Types of data• Collecting and sampling• Calculations on data	<ul style="list-style-type: none">• Representing data diagrammatically• Fermi Estimation• Exploring the large data set• Using a spreadsheet	<ul style="list-style-type: none">• Probabilities and estimation• Sample mean• Critical analysis• Normal distribution	<ul style="list-style-type: none">• Correlation and regression• Normal distribution• Pre-release	Revision



Y12	Unit	Students will learn about:
Half term 1	Percentages	<ul style="list-style-type: none">• Percentage of an amount• Percentage increase and decrease• Percentage change• Percentage profit and loss• Reverse percentages• VAT
	Interest rates	<ul style="list-style-type: none">• Simple interest• Compound interest
	Repayments and the cost of credit	<ul style="list-style-type: none">• APR• AER• Mortgages
	Taxation	<ul style="list-style-type: none">• Income tax• National Insurance• Students loans
	Types of data	<ul style="list-style-type: none">• Primary• Secondary• Qualitative• Quantitative• Discrete• Continuous
	Collecting and sampling	<ul style="list-style-type: none">• Types of sampling including cluster, stratified, random, quota• Advantages & Disadvantages of each• Limitations of each
	Calculations on data	<ul style="list-style-type: none">• Calculating the mean, median, mode, range, quartiles, interquartile range, percentiles and standard deviation• Interpreting the measures of location and spread in context• Using the calculator to find measures of location and spread where appropriate
Half term 2	Representing data diagrammatically	<ul style="list-style-type: none">• Histograms (equal and unequal class widths)• Stem and leaf (inc back to back)• Cumulative frequency diagrams

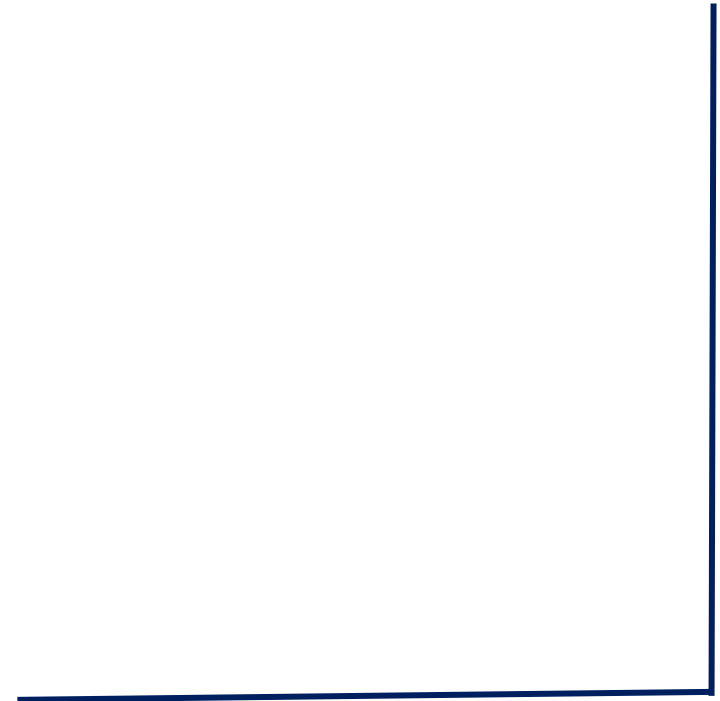


		<ul style="list-style-type: none">• Box and whisker plots• Frequency polygons
	Fermi estimation	<ul style="list-style-type: none">• Fermi estimation
	Exploring a large data set	<ul style="list-style-type: none">• Applying data analysis to large sets of data
	Using a spreadsheet	<ul style="list-style-type: none">• Use of spreadsheets analysing sets of large data
Half term 3	Probabilities & estimation	<ul style="list-style-type: none">• The difference between population and sample• Finding a simple random sample
	Sample Mean	<ul style="list-style-type: none">• Language associated with sample mean (point estimate)• Understanding that accuracy is increased with increased sample size
	Critical Analysis	<ul style="list-style-type: none">• Critically analyse arguments made by others• Summarise information• Compare results from a model with real data
	Normal Distribution	<ul style="list-style-type: none">• Properties of the Normal distribution• Finding probabilities for normal distributions• Standardising normally distributed data and using this to find probabilities
Half term 4	Correlation and regression	<ul style="list-style-type: none">• Drawing and interpreting scatter graphs for bivariate data• Use and interpret the equation of the regression line• Calculating the PMCC and interpreting the result•
	Normal distribution	<ul style="list-style-type: none">• Properties of the Normal distribution• Finding probabilities for normal distributions• Standardising normally distributed data and using this to find probabilities
	Pre-release	<ul style="list-style-type: none">• Go over the prerelease and explore possible questions associated with it



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Half term 5	Revision	<ul style="list-style-type: none">• Topic revision progressing to complete papers
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